CLAIMS

We claim:

1. A method for producing a model of an object, comprising:

receiving at least one image of said object in a computing device;

processing one or more of said at least one image to produce a model of said object;

generating feedback information corresponding to said model of said object; and

imparting said feedback information to a user of said computing device concurrently with said processing such that a determination is enabled to be made whether said model of said object is of a desired quality while said computing device is disposed to receive a further image of said object.

2. The method described in Claim 1 further comprising receiving an additional image if said determination based on said feedback information is to accomplish said receiving.

3. The method described in Claim 2 wherein said feedback information directs the acquisition of said additional image necessary to produce said model of said object wherein said model is of said desired quality.

4. The method described in Claim 1 wherein said imparting said feedback information is accomplished aurally.

5. The method described in Claim 1 wherein said imparting said feedback information is accomplished tactilely.

6. The method described in Claim 1 wherein said imparting said feedback information is accomplished visually.

7. The method described in Claim 6 wherein said feedback information is a graphic representation of said model of said object, wherein said graphic representation enables a user to determine whether acquisition of an additional image of said object is necessary to produce said model of said object wherein said model is of said desired quality.

8. The method described in Claim 1 wherein said feedback information is an image of a planar model.

9. The method described in Claim 1 wherein said feedback information is an image of a three-dimensional model.

10. The method described in Claim 1 wherein said receiving at least one image is accomplished in a handheld device.

11. The method described in Claim 10 wherein said handheld device comprises a portable computing device.

12. The method described in Claim 11 wherein said processing is accomplished in said handheld device.

13. The method described in Claim 1 wherein said processing is accomplished in a remotely located computer.

14. The method described in Claim 1 wherein said processing is accomplished in real time.

15. The method described in Claim 1 wherein said determination whether said model is of a desired quality is made by a user.

16. The method described in Claim 1 wherein said determination whether said model is of a desired quality is made by a device-driven process.

17. The method described in Claim 1 wherein said desired quality is quantifiably selectable by a user.

18. A feedback generator for producing feedback information from a model of an object, comprising:

a receiver for receiving information from said model of said object;

a feedback information generator coupled to said receiver for generating feedback information from an evaluation of said model of said object; and an output port, communicatively coupled to said feedback information generator, for imparting said feedback information to a user concurrently with the production of said model such that a determination is enabled to be made whether said model of said object is of a desired quality while said computing device is disposed to receive a further image of said object..

19. The feedback generator described in Claim 18 wherein said feedback information generator comprises a comparator.

20. The feedback generator described in Claim 18 wherein said feedback generator resides in a computing device.

21. The feedback generator described in Claim 18 wherein said feedback information is a comparison of a characteristic of said model to a selected measurement standard.

22. The feedback generator described in Claim 18 wherein said feedback information is an evaluated achievement of a selected state in the production of said model.

23. The feedback generator described in Claim 18 wherein said feedback information is a graphic representation of said model.

24. The feedback generator described in Claim 23 wherein said feedback information comprises a highlighted portion of said representation of said model.

25. The feedback generator described in Claim 18 wherein said feedback information comprises aural information.

26. The feedback generator described in Claim 18 wherein said feedback information comprises tactile information.

27. The feedback generator described in Claim 18 wherein said feedback information comprises device-driven directions for acquiring a further image.

28. The feedback generator described in Claim 18 wherein said desired quality is quantifiably selectable by a user.

29. The feedback generator described in Claim 28 wherein said desired quality is a level of resolution.

30. The feedback generator described in Claim 18 wherein said desired quality is an inclusion of a desired detail of said object in said model.

31. The feedback generator described in Claim 18 wherein said feedback information is generated in real time.

32. The feedback generator described in Claim 18 wherein said determination whether said model is of a desired quality is made by a user.

33. The feedback generator described in Claim 18 wherein said determination whether said model is of a desired quality is made by a device-driven process.

34. A computer system having a processor coupled to a memory wherein said memory comprises instructions that, when executed, implement a method for producing a model of an object, said method comprising:

receiving at least one image of said object in a computing device;

processing one or more of said images to produce a model of said object;

generating feedback information corresponding to said model of said object; and

imparting said feedback information to a user of said computing device concurrently with said processing such that a determination is enabled to be made whether said model of said object is of a desired quality while said computing device is disposed to receive a further image of said object..

35. A computer readable medium having instructions imprinted thereon that, when executed, implement a method for producing a model of an object, said method comprising:

receiving at least one image of said object in a computing device;

processing one or more of said images to produce a model of said object;

generating feedback information corresponding to said model of said object; and

imparting said feedback information to a user of said computing device concurrently with said processing such that a determination is enabled to be made whether said model of said object is of a desired quality.